

FIG. 3

```
identification() {
  for (i = 0; i < NODES; i++) cut[i] = 0;
  topological.sort();
  search(1, 0);
  search(0, 0); }

search(current_choice, current_index) {
  cut[current_index] = current_choice;
  if (current_choice == 1) {
    if (!output_port.check()) return;
    if (!convexity.check()) return;
    if (input_port.check()) {
      calculate.speedup();
      update.best.solution(); }
  if ((current_index + 1) == NODES) return;
  current_index = current_index + 1;
  search(1, current_index);
  search(0, current_index);</pre>
```

Figure 4: The identification algorithm.

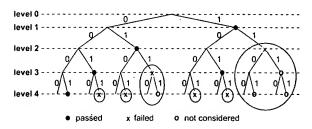


Figure 5: The execution trace of the algorithm for the graph given in Figure 2 and $N_{\rm out}=1$.

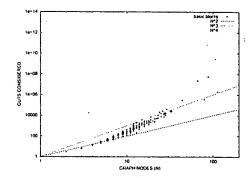


Figure 6: Number of cuts considered by the algorithm with $N_{\rm out}=2$ and any $N_{\rm in}$.

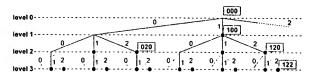


Figure 7: A search tree for two cuts.

